

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

# CERTIFICATE OF WAIVER OR AUTHORIZATION

ISSUED TO

**Full Spectrum, LLC, Responsible Person: Paul Creasy  
Waiver Number: 107W-2016-00194**

ADDRESS

**1999 Parker Court, Suite I  
Stone Mountain, GA 30087**

This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.

OPERATIONS AUTHORIZED

Acting as a remote pilot in command (PIC) or visual observer (VO) in the operation of more than one small unmanned aircraft (sUA) at the same time, at night, at Stone Mountain Park in Stone Mountain, Georgia. Reference 333 exemption petition number FAA-2016-8220.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

**14 CFR § 107.29 Daylight operation**

**14 CFR §107.35 Operation of multiple small unmanned aircraft systems**

## STANDARD PROVISIONS

1. A copy of the application made for this certificate shall be attached to and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative of the Administrator of the Federal Aviation Administration, or of any State or municipal official charged with the duty of enforcing local laws or regulations.
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.
4. This certificate is nontransferable.

NOTE—This certificate constitutes a waiver of those Federal rules or regulations specifically referred to above. It does not constitute a waiver of any State law or local ordinance.

## SPECIAL PROVISIONS

Special Provisions Nos. 1 to 18, inclusive, are set forth on the attached pages.

This Certificate of Waiver 107W-2016-00194 is effective from September 2, 2016 to September 30, 2020 and is subject to cancellation at any time upon notice by the Administrator or an authorized representative.

**BY DIRECTION OF THE ADMINISTRATOR**

**General Aviation and Commercial Division, AFS-800**

**SPECIAL PROVISIONS ISSUED TO  
Full Spectrum, LLC**

**General.**

In order to respond to your petition for exemption under Section 333 of the FAA Modernization and Reform Act of 2012, docket number FAA-2016-8220, in the most expeditious manner, the FAA has construed your petition as an application to operate your small unmanned aircraft system (sUAS) under Title 14 Code of Federal Regulations (14 CFR) part 107 in accordance with the provisions of a Waiver. The FAA's Flight Standards Service has reviewed your application to ensure compliance with the requirements of 14 CFR § 107.200. The Administrator finds that the proposed sUAS operation can be conducted safely under the provisions of this Certificate of Waiver (Waiver) as listed below, because you have established adequate mitigations for risks involved with operating your sUAS in the manner you described. Full Spectrum's prior flight testing, technology, operational history, and flight experience with these unique sUA and specific operations ensures that their remote pilots in command and visual observers will always be able to see and scan the airspace encompassing the sUA operational area and mitigates risk to those not directly participating in the operation. Adherence to the provisions of this Waiver establishes the required level of safety within the national airspace system.

This Waiver may be canceled at any time by the Administrator, the person authorized to grant the Waiver, or the representative designated to monitor a specific operation. As a general rule, this Waiver may be canceled when it is no longer required, there is an abuse of its provisions, or when unforeseen safety factors develop. Failure to comply with any provision listed below is a violation of the terms of this Waiver and may serve as justification for cancellation.

Area Authorized by this waiver: The listed regulations are waived, to the extent specified by this document, for operations at Stone Mountain Park in Stone Mountain, GA, under the specific operations/safety parameters described in their submitted petition.

List of Regulations Waived by Section and Title. The following regulations are waived:

14 CFR § 107.29, Daylight operation, is waived to allow sUAS operations during night.

14 CFR § 107.35, Operation of multiple small unmanned aircraft, is waived to allow a person to act as the remote PIC or VO to operate multiple small UAS simultaneously.

**Common Provisions.** The Responsible Person, Paul Creasy, for Full Spectrum, LLC, is directly responsible for safety of operations conducted under this Waiver and will ensure the remote PIC and VO comply with all provisions of this Waiver.

1. This Waiver must not be combined with any other waiver(s), authorization(s), or exemption(s) without specific authorization from the FAA;
2. The FAA has the authority to cancel or delay any or all flight operations if the safety of persons or property on the ground or in the air, are in jeopardy or there is a violation of the terms of this Waiver;

3. Operations under this Waiver are to be conducted in Class G airspace only unless specific airspace authorization or Waiver is received from the FAA in accordance with § 107.41;
4. A copy of this Waiver must be available during sUAS operations that are the subject of this Waiver;
5. The Responsible Person listed on this Waiver must maintain a current list of pilots by name and remote pilot certificate number used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;
6. The Responsible Person listed on this Waiver must maintain a current list of sUA by registration number(s) used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;
7. All operations under this Waiver must use one or more VO;
8. Not more than 72 hours in advance, but not less than 24 hours prior to conducting operations that are the subject of this Waiver, the Responsible Person must file a Notice to Airmen (NOTAM). The NOTAM must include location, altitude, and/or operating area, time and nature of the activity, and number of sUA flying in the operating area;

**Night sUAS Operations Special Provisions.** sUAS operations of multiple sUA may be conducted at night, as defined in 14 CFR §1.1, provided:

9. The sUA must use lighting systems that provide adequate illumination for the remote PIC and VO to maintain visual line of sight with each sUA unless a system is in place that ensures the remote PIC and VO are able to determine the position, attitude, altitude, and direction of flight of each sUA during operations that are the subject of this Waiver;
9. Prior to conducting operations that are the subject of this Waiver, the Responsible Person must ensure the remote PIC and VO are trained to recognize and overcome visual illusions caused by darkness, and understand physiological conditions which may degrade night vision. This training must be documented and must be presented for inspection upon request from the Administrator or an authorized representative;
10. The remote PIC and VO must ensure the area of operation is sufficiently illuminated to allow both the remote PIC and VO to identify people or obstacles on the ground, or the remote PIC and VO must conduct a daytime site assessment prior to conducting operations that are the subject of this Waiver, noting any hazards or obstructions;
11. In addition to the requirements of § 107.51(b), the sUA must not fly higher than 200 feet above any structure's immediate uppermost limit;

**Operation of Multiple sUAS Special Provisions.** sUAS operations with multiple sUA may be conducted, provided:

12. The proposed operation of sUA is limited to the North face of Stone Mountain Park, located at (33°48'31.4"N 84°8'40.14W), further defined by a rectangular fixed airspace measuring 300 feet by 100 feet, with a maximum altitude of 400 feet above ground level;
13. The remote PIC must ensure that an individual system failure does not interfere with the operation of other sUA or cause incidents, accidents, or loss of control involving other sUA that are the subject of this Waiver;
14. Prior to and during operations under this Waiver, the remote PIC must ensure that the geo-fence system, the ground control systems, and all primary and secondary computers, and associated systems operate properly;
15. The remote PIC must ensure that the Park's restricted area is physically barricaded to prevent unauthorized or accidental intrusion into the area;
16. The remote PIC must ensure the sUA subject to this Waiver consists of no more than 20 DJI Flame Wheel 550, weighing no more than 6 pounds;
17. Prior to conducting operations under this Waiver, the Remote PIC must ensure that the sUA fly their predetermined route to specific waypoints and hold at those waypoints until visual confirmation that the sUA are at the routed positions, and
18. The remote PIC must ensure that the sUA that are the subject of this Waiver do not exceed 10 nautical miles per hour (12 miles per hour).